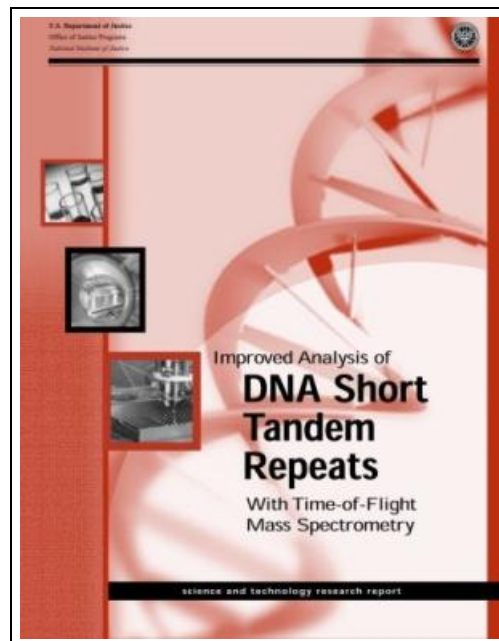


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IMPROVED ANALYSIS OF DNA SHORT TANDEM REPEATS WITH TIME-OF-FLIGHT MASS SPECTROMETRY



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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 88 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. The advent of DNA typing and its use for human identity testing has revolutionized law enforcement investigations in recent years by allowing forensic laboratories to match suspects with minuscule amounts of biological evidence from a crime scene. Equally important is the use of DNA to exclude suspects who were not involved in a crime or to identify human remains in an accident. The past decade has seen numerous advances in the DNA testing procedures, most notably among them the development of PCR (polymerase chain reaction)-based DNA typing methods. Technologies for measuring DNA variations, both length and sequence polymorphisms, have also advanced rapidly in the past decade. The time needed to determine a samples DNA profile has dropped from 68 weeks to 12 days, and with more recent advancements, the time needed to process samples may decrease to as little as a few hours, maybe even a few minutes. Simultaneous with the evolution of DNA markers and technologies embraced by the forensic community has been the acceptance and use of DNA typing information. All 50 States now have laws requiring DNA typing of convicted offenders, typically for violent crimes such as rape or homicide. While the law enforcement community is gearing up to gather millions of DNA samples from convicted felons, the DNA typing technology needs improvement. Large backlogs of samples exist today due to the high cost of performing the DNA testing and limited capabilities in forensic laboratories. A need exists for more rapid and cost-effective methods for high-throughput DNA analysis to process samples currently being gathered for large criminal DNA databases around the world. While larger numbers of samples can be processed by increasing the number of...



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